

**PROJECT DESIGN PHASE-I**  
**PROBLEM – SOLUTION FIT**

Date	6 November 2022
Team ID	PNT2022TMID43537
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard
Maximum Marks	2 Marks

**Problem – Solution Fit Template:**

The Problem-Solution Fit simply means that we have found a problem with our customer and that the solution we have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why. **Purpose:**

- Solve complex problems in a way that fits the state of your customers.
- Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- Sharpen your communication and marketing strategy with the right triggers and messaging.
- Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems. → **Understand the existing situation in order to improve it for your target group.**

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <b>CS</b> Who is your customer? I.e. working parents of 0-5 y.o. kids	<b>6. CUSTOMER CONSTRAINTS</b> <b>CC</b> What constraints prevent your customers from taking action or limit their choices of solutions? I.e. spending power, budget, no cash, network connection, available devices.	<b>5. AVAILABLE SOLUTIONS</b> <b>AS</b> Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? I.e. pen and paper is an alternative to digital note-taking.	Explore AS, differentiate
	1. Patients 2. Curious users 3. Family members of the patients	Some people are not willing to go to hospital due to financial constraints and some staying at remote locations	Visiting the experienced cardiologist to verify	

Focus on J&P, tap into BE, understand RC	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <b>J&amp;P</b> Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.	<b>9. PROBLEM ROOT CAUSE</b> <b>RC</b> What is the real reason that this problem exists? What is the back story behind the need to do this job? I.e. customers have to do it because of the change in regulations.	<b>7. BEHAVIOUR</b> <b>BE</b> What does your customer do to address the problem and get the job done? I.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (I.e. Greenpeace)	Focus on J&P, tap into BE, understand RC
	To predict whether the user has heart disease or not	Users are in need of these kind of solutions because 1. Because heart disease is hereditary 2. Some people may be leading unhealthy lifestyles which might make them more susceptible to heart related diseases	1. Schedule an appointment 2. Search for the best cardiologist online 3. Speak to family/friends regarding solutions	

Identify strong TR & EM	<b>3. TRIGGERS</b> <b>TR</b> What triggers customers to act? I.e. seeing their neighbor installing solar panels, reading about a more efficient solution in the news.	<b>10. YOUR SOLUTION</b> <b>SL</b> If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.	<b>8. CHANNELS of BEHAVIOUR</b> <b>CH</b> <b>8.1 ONLINE</b> What kind of actions do customers take online? Extract online channels from #7	Extract online & offline CH of BE
	Feeling discomfort in their chest. Users making sure that they are healthy	Our application helps the user in finding out if they have heart disease or not. They can find out by entering details such as their heart rate, cholesterol blood pressure etc. A dashboard is also attached along with the results for better understanding where they can compare their blood pressure and similar metrics with other users	1. Talk with friends/family 2. Browse health related websites	
	<b>4. EMOTIONS: BEFORE / AFTER</b> <b>EM</b> How do customers feel when they face a problem or a job and afterwards? I.e. lost, insecure > confident, in control - use it in your communication strategy & design.		<b>8.2 OFFLINE</b> What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.	
	Before taking the test, the user will be anxious. After taking the test, the user will either be relieved that they are healthy or go to the hospital for double checking/treatment		1. Reach out to the nearest cardiologist	